AMENDMENT NO. 2 MARCH 2022

TO

IS 17153 : 2019 DOMESTIC GAS STOVES FOR USE WITH PIPED NATURAL GASES (PNG) — SPECIFICATION

(*Page* 1, *clause* **1.1**) — Substitute the following for the existing text:

‘**1.1** This standard specifies construction, operation, safety requirements and tests for domestic gas stoves with metallic bodies with or without toughened glass top intended for use with PNG at 21 mbar (21.41 gf/cm^2) gas inlet pressure.’

(*Page* 1, *clause* **2**) — Add the following standards:

‘IS 2553 (Part 1) : 2018 – Safety Glass — Specification: Part 1 Architectural, Building and General Uses (*Fourth Revision*)

IS 14900 : 2018 – Transparent float glass — Specification (*First Revision*)

IS 6506 : 1972 – Methods for thermal shock tests on glassware’

(*Page* 1, *clause* **2**) — Delete the following references:

‘IS 6910 : 1985 – Method of testing corrosion resistance of electroplated and anodized aluminium coatings by acetic acid salt spray test (*First Revision*)

IS 6009 : 1970 – Method for evaluation of results of accelerated corrosion test’

(*Page* 2, *clause* **5.4**, *line* 3) — Delete ‘or LPG.’

(*Page* 2, *clause* **5.8.2**) — Substitute the following for the existing text:

‘**5.8.2** Toughened glass, if provided, shall meet the following requirements –

a) Compliance to all the applicable requirements as per IS 2553 (Part 1).
b) The thickness of the glass shall be at least 6 mm nominal with tolerance as per IS 14900.
c) Toughened glass top including their edges or corners shall not have fissures or scratches.

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d) An adhesive tape of glass fibre with Aluminium foil of minimum thickness as 0.13 mm, having temperature resistance of 120°C for one hour, shall be pasted on toughened glass with no visible wrinkles.

The test has to be conducted after the pasting of adhesive tape with aluminium foil and tested as follows -

> "Adhesive tape with foil to be pasted on a fully toughened glass sample of size 1 feet × 1 feet and heated to 120°C for one hour. The adhesive tape shall not burn or peel off."

e) The following instructions for safe use of glass top gas stove shall be printed on the toughened glass. The instructions shall be properly readable. Instructions shall also be printed in the Instruction Manual provided.

  i) Bati/Tandoor/inverted vessel or similar utensils shall be used only with bati stand provided with the glass top gas stove.
  ii) Do not pour water on the glass when it is hot.
  iii) Do not keep hot vessels on the glass surface.
  iv) Do not hammer the glass.'

(*Page* 2, *clause* **5.8.3**) — Substitute the following for the existing text:

'Additionally, the following points shall be complied with

a) The means used to hold the glass top of the gas stove shall not allow any stress or risk of mechanical change to the glass top. For example, screws used for assembly shall not come into contact with glass top.

b) When a pan support for an uncovered burner is in contact with the glass ceramic surface of the gas stove, the surface area of the pan support in contact with the glass ceramic surface shall be at least 25 mm^2.

c) The distance between flat bottom of vessel and glass top shall be such that the temperature of the glass does not exceed 200°C.

d) A bati stand shall be provided as part of toughened glass gas stove for making Bati/Tandoor/inverted vessel etc.

e) Thermal Shock test as per method D of IS 6506 shall be required. 't_1' value shall be 200 ± 5 °C and 't_2' shall be 15 ± 5 °C.

Procedure - Heat the oven and adjust the temperature to 200 ± 5 °C and place the glass specimen of size 1 feet x 1 feet for 30 minutes. Then remove the specimen and pour 1L - 1.1L of water steadily and uniformly on the glass surface at 15 ± 5 °C. There shall be no chip, crack or break in the glass.

f) Stand for Bati, inverted vessel, Tandoor maker etc. shall be provided. The design of the Bati stand, Tandoor maker etc. shall be such that, it shall withstand the weight of the Bati, Tandoor etc and the temperature of the glass shall not go beyond 200°C. The design referred as Fig. 14 is for reference. Any other design may be used, provided the condition of strength and temperature given above is satisfied.”

(*Page* 3, *clause* **7**) — Substitute the following for the existing text:

‘7.1 The appliance shall be so designed that it remains stable and shall not be easily overturned.

7.2 The appliance, if mounted on a cylinder or on a stand shall be so designed that it will not tip over when placed on a plane at an angle of 10° from the horizontal, with the container empty.

7.3 For cooking appliances, the design of the pan support shall be such that the assembly will remain stable when used with vessel of diameter from 150 mm to 250 mm.’

(*Page* 3, *clause* **8.3,** *line* 5) — Delete ‘and **8.3.3**’

(*Page* 3, *clause* **8.3.3**) — Delete.

(*Page* 9, *clause* **14.5**, *line* 5) — Add ‘Revolving Nozzle may be permitted to be fitted on the rear side of the gas stove.

[*Page* 9, *clause* **15.1** (*see also* amendment no.1)] — Delete.

(*Page* 10, *clause* **15.2**) — Delete.

(*Page* 10, *Figure* ***8***) — Delete.

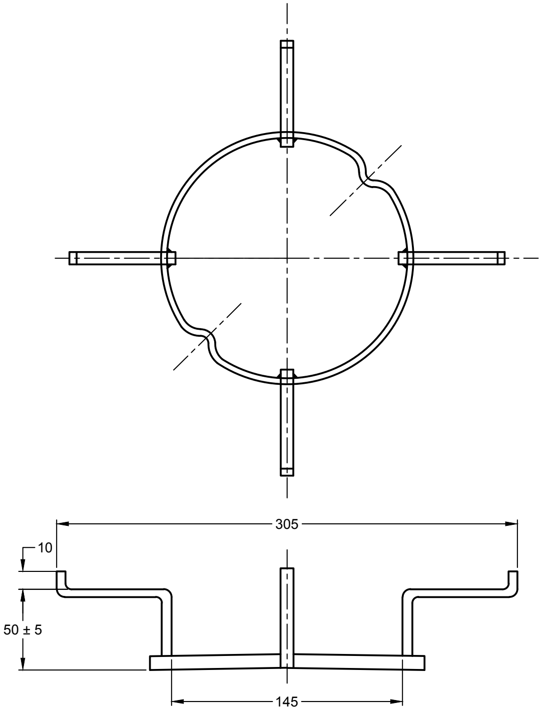
[*Page* 12, *clause* **25.2**, *sentence* 2] — Substitute the following for the existing text:

‘The temperature of the flame at any point in a plane at a height of H + 20 mm from the top of the pan support shall not exceed 500 °C, H is the pan height corresponding to the gas rate of the burner as shown in col 3 of Table 1 under Annex D.’

(*Page* 12, *clause* **26**, *sentence two*) — Substitute the following for the existing text:

'For this test, the net calorific value may be determined through actual gas composition analysis or calorific value of 8 Kcal/l shall be taken.'

[*Page* 12, *clause* **26** (*see also* amendment no. 1), *sentence three*] — 'Delete.'



All dimensions in millimetres.

FIG. 14 REFERENCE FIGURE FOR BATI/INVERTED VESSEL/TANDOOR MAKER STAND (MATERIAL IS 4 mm THICK STRIP OF MS/SS)

(MED 23)

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